

560, 557  
Rec'd PCT/PTO' 07 OCT 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
23 October 2003 (23.10.2003)

PCT

(10) International Publication Number  
**WO 03/087532 A1**

(51) International Patent Classification<sup>7</sup>: **E21B 37/06, C10L 3/00**

(21) International Application Number: **PCT/CA03/00528**

(22) International Filing Date: **11 April 2003 (11.04.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data: **60/372,522 12 April 2002 (12.04.2002) US**

(71) Applicant (*for all designated States except US*): **QUEEN'S UNIVERSITY AT KINGSTON [CA/CA]; Kingston, Ontario K7L 3N6 (CA).**

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **WALKER, Virginia, K. [CA/CA]; RR #1, Sydenham, Ontario K0H 2T0 (CA). RIPMEESTER, John, A. [CA/CA]; 29 Delong Drive, Ottawa, Ontario K1J 7E5 (CA). ZENG, Huang [CN/CA]; 324 Cambridge Street North, Ottawa, Ontario K1R 7B5 (CA).**

(74) Agents: **ROBINSON, J., Christopher et al.; Fetherstonhaugh % CO., Box 11560, Vancouver Centre, 650 West Georgia Street, Suite 2200, Vancouver, British Columbia V6B 4N8 (CA).**

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 03/087532 A1

(54) Title: ANTIFREEZE PROTEINS FOR INHIBITION OF CLATHRATE HYDRATE FORMATION AND REFORMATION

(57) Abstract: Antifreeze proteins, active fragments of these antifreeze proteins and mimetics thereof for use in inhibiting clathrate hydrate formation and reformation and designing and selecting inhibitors of clathrate hydrate formation and reformation are provided.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B37/06 C10L3/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B C10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ZENG H, WILSON L.D. ET AL: "The inhibition of THF tetrahydrofuran clathrate hydrate formation by antifreeze protein" PETROLEUM ABSTRACTS 43/24, ABSTRACT N°811196, 14 June 2003 (2003-06-14), pages 526-530, XP008020507 the whole document & Proceedings of the fourth International Conference on Gas Hydrates , Yokohama May 19-23-2002 ---	1-8, 18, 19
Y	WO 94 25727 A (BP EXPLORATION OPERATING) 10 November 1994 (1994-11-10) page 3, line 4 -page 4, line 6 ---	1-8, 18, 19 ---

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the International search

Date of mailing of the International search report

7 August 2003

18/08/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel: (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Boulon, A

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

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Application No

PCT

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